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PTO/SB/21 (12-97)

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TRANSMITTAL	Application Number	09/786,635 >					
FORM	Filing Date	May 22, 2001					
(To be used for all correspondence after initial filing)	First Named Inventor	Gerd Schmitz					
	Group Art Unit	1646	$\dashv$				
	Examiner Name	Joseph F. Murphy	$\dashv$				
Total Number of Pages in This Submission	Attorney Docket Number	Bayer 10,131-KGB					

ENCLOSURES (check all that apply)											
	THE ENGLES (Check all that apply	)									
☐ Fee Transmittal Form ☐ Fee Attached	☐ Assignment Papers (for an Application)	☐ After Allowance Communication to Group									
□Amendment / Response □ After Final	☐ Drawing(s)	☐ Appeal Communication to Board of Appeals and Interferences									
☐ Affidavits/declaration(s)	☐ Licensing-related Papers										
☐ Extension of Time Request	☐ Petition	Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)									
☐ Express Abandonment Request	☐ To convert a Provisional Application	☐ Proprietary Information									
☐ Information Disclosure Statement	☐ Power of Attorney, Revocation	☐ Status Letter									
☐ Certified Copy of Priority Document(s)	Change of Correspondence Address	☑ Additional Enclosure(s) -(please identify below):									
☐ Response to Missing Parts/	☐ Terminal Disclaimer	- Response to Notice; Diskette containing substitute computer readable form (CRF) copy of the Sequence Listing; copy of Notice									
Incomplete Application	☐ Small Entity Statement										
☐ Response to Missing Parts under 37 CFR 1.52 or 1.53	☐ Request for Refund	to Comply with Requirements for Patent Applications dated 9/13/02.									
	Remarks:										
SIGNATU	RE OF APPLICANT, ATTORNEY, OR	AGENT									
F		AGENT									
	Theodore A. Gottlieb	_									
Signature	NORRIS MCLAUGHLIN & MARCUS, P										
Data	Mercha Down	Reg. No. 42,597									
Date	October 1, 2002										
	CERTIFICATE OF MAILING										
I hereby certify that this correspondence is b envelope addressed to : Hon. Assistant Com	eing deposited with the United States Postal	Service as first class mail in an									
Typed or printed name Vilma I. Fe	missioner of Faterits, Washington, D.C. 202	231.									
Signature		Date October 1, 2002									
surden Hour Statement: This form is estimated to take 0.2 ho	surs to complete, time will vary depending upon the										

time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Hon. Commissioner of Patents, Washington, DC 20231.



Atty's Docket No.: Bayer 10,131-KGB

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Assistant Commissioner For Patents, Washington, D.C. 20231, on October 1, 2002.

Vilma I. Pernande

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

SERIAL NO.

09/786,635

**APPLICANT** 

Gerd SCHMITZ et al.,

**FILED** 

May 22, 2001

**EXAMINER** 

Joseph Murphy

**ART UNIT** 

1646

**FOR** 

ATP BINDING CASSETTE GENES AND PROTEIN FOR

DIAGNOSIS AND TREATMENT OF LIPID DISORDERS

AND INFLAMMATORY DISEASES

Hon. Assistant Commissioner of Patents c/o Examiner Joseph Murphy Crystal Mall 1 7th Floor Reception 1911 South Clark Street Arlington, VA 22202

October 13, 2002

# RESPONSE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Sir:

This communication is in response to the Notice to Comply mailed on September 13, 2002.

#### **CONDITIONAL PETITION FOR EXTENSION OF TIME**

If any extension of time for this response is required, Applicants request that this be considered a petition therefore. Please charge the required fee to Deposit Account No. 14-1263.

#### **ADDITIONAL FEES**

Please charge any further insufficiency of fees, or credit any excess to Deposit Account No. 14-1263.

#### **REMARKS**

Enclosed herewith, is a copy of the amended Sequence Listing on a computer readable diskette.

The undersigned affirms that the amended sequence listing in the accompanying diskette does not comprise new matter. In addition, the only changes are those required in the NOTICE, a copy of which is attached.

The nucleotide and amino acid sequences disclosed in the accompanying diskette are believed to be identical to those originally filed.

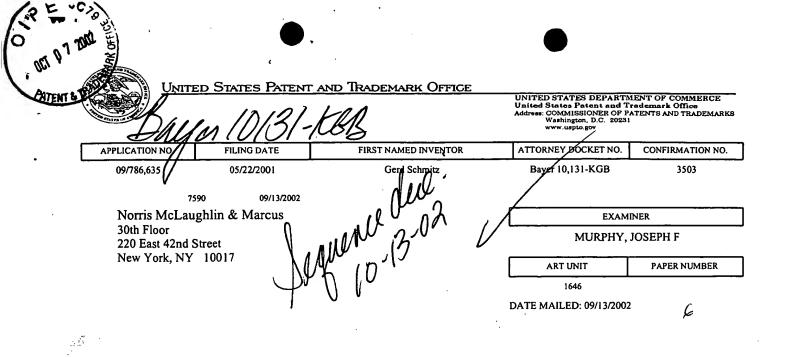
Respectfully submitted, Norris, McLaughlin & Marcus

Theodore A. Gottlieb, Ph.D.

Reg. No. 42,597 220 East 42<sup>nd</sup> Street

New York, NY 10017

telephone (646) 487-5675 facsimile (212) 808-0844



Please find below and/or attached an Office communication concerning this application or proceeding.





### UNITED STATES DETERMENT OF COMMERCE Patent and Trademark Office

Address: ASSISTANT COMMISSIONER FOR PATENTS

Washington, D.C. 20231

APPLICATION NO./	FILING DATE	FIRST NAMED INVENTOR I	ATTORNEY DOCKET NO.
CONTROL NO.		PATENT IN REEXAMINATION	

EXAMINER

ART UNIT PAPER

6

DATE MAILED:

Please find below and/or attached an Office communication concerning this application or proceeding.

#### **Commissioner of Patents and Trademarks**

#### Sequence Rules

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR 1.821(a)(1) and (a)(2). However, this application fails to comply with the requirements of 37 CFR 1.821 through 1.825 for the reason(s) set forth on the attached Notice to Comply with Sequence Rules and Raw Sequence :Listing Error Report.

Applicant is given ONE MONTH from the mailing date of this letter within which to comply with the sequence rules, 37 CFR 1.821 - 1.825. Failure to comply with these requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a). In no case may an applicant extend the period for reply beyond the SIX MONTH statutory period. Direct the reply to the undersigned. Applicant is requested to return a copy of the attached Notice to Comply with the reply.

#### Advisory Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph F. Murphy whose telephone number is 703-305-7245. The examiner can normally be reached on M-F 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler can be reached on 703-308-6564. The fax phone numbers for the organization where this application or proceeding is assigned are 703-305-3014 for regular communications and 703-308-0294 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Joseph F. Murphy, Ph. D.

Patent Examiner
Art Unit 1646



### RECEIVED

OCT 0 9 2002

TECH CENTER 1600/2900

## Application No.: 17860 NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

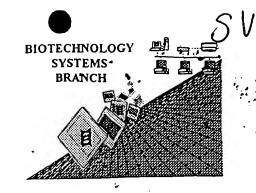
This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990 and at 55 FR 18230, May 1, 1990.	<b>;</b>
2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).	<u>;</u>
3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).	,
4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."	
5. The computer readable form that has been filed with this application has been found to be damage and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).	d
6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).	
7. Other:	
Applicant Must Provide:	
An initial of substitute computer readable form (CRF) copy of the "Sequence Listing".	
An <u>initial</u> or substitute paper copy of the "Sequence Listing", as well as an amendment directing its ent into the specification.	ry
A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).	
For questions regarding compliance to these requirements, please contact:	
For Rules Interpretation, call (703) 308-4216	
For CRF Submission Help, call (703) 308-4212 For PatentIn software help, call (703) 308-6856	
. 5. 7 Etolian Control Noip, Call (100) 500-0000	

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE

Applican copy



## RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09786635

Source: 11/14/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 c-mail help: <a href="mailto:patin21help@uspto.gov">patin21help@uspto.gov</a> or phone 703-306-4119 (R. Wax) PATENTIN 3.0 c-mail help: <a href="mailto:patin3help@uspto.gov">patin3help@uspto.gov</a> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

#### Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker



#### Raw Sequence Litting Error Summary

ERROR DETECTED	SUCCESTED CORRECTION SERIAL NUMBER: 09/786635
ATTN: NEW RULES CAS	ES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY
IWrapped Nucleics Wrapped Aminos	The numberhest at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Lingth	The rules require that a line not exceed 72 characters in length. This includes white spaces,
JMisaligned Amino Numbering	The numbering under each 5th amino soid is misslighted. Do not use tab codes between numbers; use apace characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
SVariable Length.	Sequence(s) contain n's or Xua's representing more than one residue. Per Sequence Rules, each n or Xua can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220> <223> section that some may be missing.
6Patentin 2.0 "bug"	A "bug" in Patentin version 2.0 has caused the <220>-<223> section to be missing from a mino acid sequences(s) Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped acquence (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CILARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped
,	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to Include the skipped sequences.
Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intentional, please insert the following lines for each skipped sequence <210> pequence id number <400> sequence id number 000
(NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents
)Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or acientific name (Genus) species). <220>-<223> section is required when <213> response is Unknown is Artificial Sequence
Usc of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Antificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
Misuse of n	in can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

AMC/MII - Biotechnology Systems Branch - 08/21/2001



PCT09

RAW SEQUENCE LISTING DATE: 11/14/2001 PATENT APPLICATION: US/09/786,635 TIME: 14:04:22

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116 ctacttttgc tgtatgggtg gtcaatcaca cctctcatgt acccagcctc ctttgtgttc 5220
117 aagateecca geacageeta tgtggtgete accagegtga acetetteat tggcattaat 5280
118 ggcagcgtgg ccacctttgt gctggagctg ttcaccgaca ataagctgaa taatatcaat 5340
119 gatatectga agteegtgtt ettgatette ecacattttt geetgggaeg agggeteate 5400
120 gacatggtga aaaaccaggc aatggctgat gccctggaaa ggtttgggga gaatcgcttt 5460
121 gtgtcaccat tatcttggga cttggtggga cgaaacctct tcgccatggc cgtggaaggg 5520
122 gtggtgttct tcctcattac tgttctgatc cagtacagat tcttcatcag gcccagacct 5580
123 gtaaatgcaa agctatctcc tctgaatgat gaagatgaag atgtgaggcg ggaaagacag 5640
124 agaattettg atggtggagg ceagaatgae atettagaaa teaaggagtt gacgaagata 5700
125 tatagaagga agcggaagcc tgctgttgac aggatttgcg tgggcattcc tcctggtgag 5760
126 tgctttgggc tcctgggagt taatggggct ggaaaatcat caactttcaa gatgttaaca 5820
127 ggagatacca ctgttaccag aggagatgct ttccttaaca gaaatagtat cttatcaaac 5880
128 atccatgaag tacatcagaa catgggctac tgccctcagt ttgatgccat cacagagctg 5940
129 ttgactggga gagaacacgt ggagttcttt gcccttttga gaggagtccc agagaaagaa 6000
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132 ggcgggcctc ctgtggtgtt tctggatgaa cccaccacag gcatggatcc caaagcccgg 6180
133 cggttcttgt ggaattgtgc cctaagtgtt gtcaaggagg ggagatcagt agtgcttaca 6240
134 totcatagta tggaagaatg tgaagotott tgcactagga tggcaatcat ggtcaatgga 6300
135 aggttcaggt gccttggcag tgtccagcat ctaaaaaata ggtttggaga tggttataca 6360
136 atagttgtac gaatagcagg gtccaacccg gacctgaagc ctgtccagga tttctttgga 6420
137 cttgcatttc ctggaagtgt tccaaaagag aaacaccgga acatgctaca ataccagctt 6480
138 ccatcttcat tatcttctct ggccaggata ttcagcatcc tctcccagag caaaaagcga 6540
139 ctccacatag aagactactc tgtttctcag acaacacttg accaagtatt tgtgaacttt 6600
140 gccaaggacc aaagtgatga tgaccactta aaagacctct cattacacaa aaaccagaca 6660
141 gtagtggacg ttgcagttct cacatctttt ctacaggatg agaaagtgaa agaaagctat 6720
142 gtatgaagaa teetgtteat acggggtgge tgaaagtaaa gagggaetag acttteettt 6780
143 gcaccatgtg aagtgttgtg gagaaaagag ccagaagttg atgtgggaag aagtaaactg 6840
144 gatactgtac tgatactatt caatgcaatg caattcaatg
146 <210> SEQ ID NO: 2
147 <211> LENGTH: 2201
148 <212> TYPE: PRT
149 <213> ORGANISM: Human
151 <220> FEATURE:
152 <223> OTHER INFORMATION: Peptide sequence of ABCA1 (ABC1)
154 <400> SEQUENCE: 2
155 Met Pro Ser Ala Gly Thr Leu Pro Trp Val Gln Gly Ile Ile Cys Asn
                                         10
158 Ala Asn Asn Pro Cys Phe Arg Tyr Pro Thr Pro Gly Glu Ala Pro Gly
                 20
161 Val Val Gly Asn Phe Asn Lys Ser Ile Val Ala Arg Leu Phe Ser Asp
```

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162			35					40					45			
164	λla	Δra		T.e11	Leu	Leu	Tvr	Ser	Gln	Lvs	Asp	Thr	_	Met	Lys	Asp
165	AIU	50	**** 9	Dea	200	200	55			-1-		60			•	-
167	Mat		Lvc	Val	T.eu	Ara		Leu	Gln	Gln	Ile	Lvs	Lvs	Ser	Ser	Ser
168	65	Arg	цуз	vu.	LCu	70		200	02		75	-1-				80
		Lau	Luc	T.011	Gln		Phe	Leu	Val	Asp		Glu	Thr	Phe	Ser	Glv
171	ASII	Leu	цуз	пец	85	N3P	1 110	пса	,	90					95	1
	Dho	Lon	Tur	uic		T.A.II	Ser	Leu	Pro		Ser	Thr	Val	Asp		Met
174	PILE	пец	1 7 1	100	поп	БСС	001	Dea	105	272				110	_1 -	
176	Tou	7 x x x	ב [ ג		Va 1	τlο	T.Qu	His		Val	Phe	Len	Gln		Tvr	Gln
177	пец	пта	115	пор	, ur	110	Deu	120	-10				125	1		
170	LOU	uic		πhr	Ser	T.e.u	Cvs	Asn	Glv	Ser	Lvs	Ser		Glu	Met	Ile
180	ьец	130	Бец	1111	JCI	пси	135	11011	011		-1-	140				
100	Cln		Cl v	Δen	Gln	Glu		Ser	Glu	Leu	Cvs		Leu	Pro	Arq	Glu
	145	Dea	Сту	пор	0111	150	, , ,	961	014		155	J-1				160
105	147	LOU	λla	Δla	Δla		Arσ	Val	Len	Ara		Asn	Met	Asp	Ile	Leu
186	пуэ	пец	ліа	AIG	165	OLU	*** 9	, 42	200	170					175	
100	Tvc	Dro	τlΔ	T.au		Thr	T.e.11	Asn	Ser		Ser	Pro	Phe	Pro		Lvs
189	БУЗ	FIO	116	180	nr 9	1111	пси	11011	185					190		.4
101	clu	Lau	λla		Δla	Thr	Lvs	Thr		Leu	His	Ser	Leu		Thr	Leu
192	GIU	Deu	195	OIU	niu	1111	Lys	200					205	1		
104	λla	Cln		T.011	Dhe	Ser	Met	Arg	Ser	Tro	Ser	Asp	Met	Ara	Gln	Glu
195	AIU	210	GIU	пса	1	001	215					220		,		
	Val		Dhe	T.e.ii	Thr	Asn		Asn	Ser	Ser	Ser	Ser	Ser	Thr	Gln	Ile
	225	1100	1 110	LCu	****	230					235					240
200	Tur	Gln	Δla	Va1	Ser		Ile	Val	Cvs	Glv		Pro	Glu	Gly	Gly	Gly
201	-1-	0111			245	5			_	250				_	255	_
	Len	Lvs	Tle	Lvs		Leu	Asn	Trp	Tvr		Asp	Asn	Asn	Tyr	Lys	Ala
204	ДСИ	2,0		260					265		•	•		270	_	
	T.e.11	Phe	Glv		Asn	Glv	Thr	Glu	Glu	Asp	Ala	Glu	Thr	Phe	Tyr	Asp
207	DC u		275	1		1		280		-			285		_	
209	Asn	Ser		Thr	Pro	Tyr	Cys	Asn	Asp	Leu	Met	Lys	Asn	Leu	Glu	Ser
210		290				-	295		-			300				
	Ser		Leu	Ser	Arq	Ile	Ile	Trp	Lys	Ala	Leu	Lys	Pro	Leu	Leu	Val
	305				,	310		•	-		315					320
		Lvs	Ile	Leu	Tyr	Thr	Pro	Asp	Thr	Pro	Ala	Thr	Arg	Gln	Val	Met
216	1	-1-			325			-		330					335	
	Ala	Glu	Val	Asn	Lys	Thr	Phe	Gln	Glu	Leu	Ala	Val	Phe	His	Asp	Leu
219				340					345					350		
221	Glu	Glv	Met	Trp	Glu	Glu	Leu	Ser	Pro	Lys	Ile	Trp	Thr	Phe	Met	Glu
222		•	355	•				360		_			365			
224	Asn	Ser	Gln	Glu	Met	Asp	Leu	Val	Arg	Met	Leu	Leu	Asp	Ser	Arg	Asp
225		370				-	375		_			380				
227	Asn		His	Phe	Trp	Glu	Gln	Gln	Leu	Asp	Gly	Leu	Asp	Trp	Thr	Ala
	385	E-			•	390				-	395		_	_		400
230	Gln	Asp	Ile	Val	Ala	Phe	Leu	Ala	Lys	His	Pro	Glu	Asp	Val	Gln	Ser
231					405					410					415	
233	Ser	Asn	Gly	Ser		Tyr	Thr	Trp	Arg	Glu	Ala	Phe	Asn	Glu	Thr	Asn
234			-	420		-		-	425					430		

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											_		_		_	_
236 237		Ala	Ile 435	Arg	Thr	Ile	Ser	Arg 440	Phe	Met	Glu	Cys	Val 445	Asn	Leu	Asn
		Len		Dro	Tle	Δla	Thr		Val	Tro	Leu	Ile	Asn	Lvs	Ser	Met.
240	цуз	450	OIG	110	110	1114	455	010				460		-1-		
	C1.,		T 011	7 00	C1.,	λrα		Dha	Trn	Δla	Clv	Ile	Va 1	Dhe	Thr	Glv
		ьeu	ьeu	ASP	Gru	470	пλэ	FIIC	пр	ALG	475	110	vui	1110	1111	480
	465	m1.	<b>5</b>	01	<b>a</b>		<b>61</b>	T 0.11	Dwo	ni a		1701	T *** C	m	Tvc	
	TTE	Thr	PIO	СТА		me	GIU	теп	PIO	490	urs	Val	цуз	ıyı	495	116
246	_	٠.٠.	_	<b>+</b> 7 -	485	•	17- 1	<b>a</b> 1	3		N an	T	т1.	T ***		C1.,
	Arg	Met	Asp		Asp	Asn	vaı	GIU		THE	ASII	Lys	TTE		ASP	GIY
249		_	_ ^	500		_		- 1 -	505	D	Dh.	<b>a</b> 1	3	510	3	
	Tyr	Trp		Pro	GLY	Pro	Arg		Asp	Pro	Pne	Glu		мес	Arg	TAT
252			515				_	520		_			525	01	- 1 -	<b>~</b> 1.
	Val	_	GГĀ	GIY	Phe	Ala		Leu	GIn	Asp	Val	Val	GLU	GII	Ala	TTE
255		530					535			_		540		_		<b>a</b> 1
		Arg	Val	Leu	Thr		Thr	Glu	Lys	Lys		Gly	Val	Tyr	Met	
	545					550					555		_	_	1	560
260	Gln	Met	Pro	Tyr		Cys	Tyr	Val	Asp		Ile	Phe	Leu	Arg		Met
261					565					570			_		575	_
263	Ser	Arg	Ser		Pro	Leu	Phe	Met		Leu	Ala	$\mathtt{Trp}$	Ile		Ser	Val
264				580					585			_		590		_
	Ala	Val		Ile	Lys	Gly	Ile		Tyr	Glu	Lys	Glu		Arg	Leu	Lys
267			595					600				_	605			_
269	Glu	Thr	Met	Arg	Ile	Met	Gly	Leu	Asp	Asn	Ser	Ile	Leu	Trp	Phe	Ser
270		610					615					620	_			
272	$\mathtt{Trp}$	Phe	Ile	Ser	Ser	Leu	Ile	Pro	Leu	Leu		Ser	Ala	Gly	Leu	
	625					630					635					640
275	Val	Val	Ile	Leu	Lys	Leu	Gly	Asn	Leu		Pro	Tyr	Ser	Asp		Ser
276					645					650					655	
278	Val	Val	Phe	Val	Phe	Leu	Ser	Val		Ala	Val	Val	Thr		Leu	Gln
279				660					665					670		
281	Cys	Phe	Leu	Ile	Ser	Thr	Leu	Phe	Ser	Arg	Ala	Asn	Leu	Ala	Ala	Ala
282			675					680					685			
284	Cys	Gly	Gly	Ile	Ile	Tyr	Phe	Thr	Leu	Tyr	Leu	Pro	$\mathtt{Tyr}$	Val	Leu	Cys
285		690					695					700				
287	Val	Ala	Trp	Gln	Asp	Tyr	Val	Gly	Phe	Thr	Leu	Lys	Ile	Phe	Ala	
	705					710					715					720
290	Leu	Leu	Ser	Pro	Val	Ala	Phe	Gly	Phe	Gly	Cys	Glu	Tyr	Phe	Ala	Leu
291					725					730					735	
293	Phe	Glu	Glu	Gln	Gly	Ile	Gly	Val	Gln	Trp	Asp	Asn	Leu	Phe	Glu	Ser
294				740					745					750		
296	Pro	Val	Glu	Glu	Asp	Gly	Phe	Asn	Leu	Thr	Thr	Ser	Val	Ser	Met	Met
297			755		_	_		760					765			
	Leu	Phe	Asp	Thr	Phe	Leu	Tyr	Gly	Val	Met	Thr	Trp	Tyr	Ile	Glu	Ala
300		770	-				775	-				780				
	Val		Pro	Gly	Gln	Tyr	Gly	Ile	Pro	Arg	Pro	Trp	Tyr	Phe	Pro	Cys
	785			- 4		790	-			-	795	-	_			800
		Lvs	Ser	Tyr	Trp		Glv	Glu	Glu	Ser		Glu	Lys	Ser	His	Pro
306		-1-	<del>-</del>	<b></b> –	805		- 4			810	-		-		815	
	Glv	Ser	Asn	Gln		Ara	Ile	Ser	Glu		Cys	Met	Glu	Glu	Glu	Pro
200	O + 1				-10	7					- 1 -					_

```
<210> 3
<211> 1130
<212> DNA
<213> Human
<220>
<223> human cDNA of ABCB9
<400> 3
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```
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ggaacccccc agtcctcatc ctggatgaag ccaccagcgc tttggatgcc gagagcgagt 180
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gtoctotoco catacocoto cagagaaggg gottocotgt coggagggag acacggggaa 720
cgggattttc cgtctctccc tcttgccagc tctgtgagtc tggccagggc gggtagggag 780
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gcaacatgtt gagagaaccc ggtcaataaa gtgtactacc tcttacccct
```

Unterown must be enumerated on fields 221, 222 and 223

Gloken P

The type of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

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```
L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:579\ M:258\ W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:579 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:579 \ M:341 \ W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:580 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:580 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:580 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:584 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:584 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:588 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:588 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:588 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:589 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L = 5,89 \text{ M}:258 \text{ W}: Mandatory Feature missing, <222> not found for SEQ ID#:3
L 389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L플96 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:596 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L号96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L $\overline{\pi}23 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L E23 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L1623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:624 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:4
L:624 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:4
L\frac{2}{16}24 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L資205 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L世205 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L $\frac{1}{2}05 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L 1212 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L 212 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L \rightleftharpoons 212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1213 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:1213 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:1213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1214 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:13
L:1214 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:13
L:1214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13
L:1577 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:1577 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:1577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:1625 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:20
L:1625 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:20
L:1625 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:1720 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:25
L:1720 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:25
L:1720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1986 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
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L:1986 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L:1986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1988 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L:1988 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L:1988 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1990 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L:1990 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L:1990 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1993 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L:1993 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L:1993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1994 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L:1994 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L:1994 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1995 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L:1995 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L=995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L製013 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L.할013 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L型013 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L2014 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:31
L證014 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:31
L:2014 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L_{\rm L}^{\rm T2}289 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:54
L:2289 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:54
L^{\frac{n}{2}}2289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L=2291 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:54
L記291 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:54
L2291 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L32293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L=2296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:2297 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:2298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:2316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:2317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
```